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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/991,079	11/16/2001	Valery Tsourikov	IMC-43	4738
29344	7590	04/30/2007		
MILLS & ONELLO LLP ELEVEN BEACON STREET SUITE 605 BOSTON, MA 02108			EXAMINER SPOONER, LAMONT M	
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			04/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/991,079

Applicant(s)

TSOURIKOV ET AL.

Examiner

Lamont M. Spooner

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 2/9/07 have been fully considered but they are not persuasive.

In response to applicant's arguments regarding, the combination of Lamberti and Johnson, the Examiner notes that Lamberti and Johnson are related in that they process queries. The Examiner doesn't rely on Johnson for applicant's discussed window properties. The Examiner relies on Johnson for voice technology, in a query system.

2. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatton (US 6,269,356).

As per **claims 1 and 12**, Hatton teaches a system enabling a user to ask a question (query) and for providing the user with one or more answers or solutions to such question, the system comprising:

user apparatus for automatically generating first signals representative of a natural language user query that includes one or more query elements comprising (A-O), (S-A), o-r-(S-X-O), or (S) (C.13.line 17, Fig. 5. His problem statement);

a knowledge base of semantically and automatically processed information including a plurality of available answers in the form of S-A-O's (C.6.lines 38-57, Fig. 5),

identify from the one or more query elements at least one knowledge base element S, O, or A, or (A-O) associated with at least one respective knowledge base answer S-A-O that includes the one or more query element, in response to the server receiving the first signals (C.6.lines 4-6, C.7.lines 20-24); and

generate second signals representative of the at least one answer S-A-O, wherein the user apparatus is configured to generate a natural language audio message or visual display of the at least one

answer S-A-O in response to receiving the second signals (C.13.lines 10-19); and

communication devices configured to transmit the first signals from the user apparatus and to the user apparatus (ibid, Fig. 5).

It is noted that Hatton teach the claimed invention but does not explicitly teach a server for storing a knowledge base and for transmitting the first signals for the user apparatus to the server and for transmitting the second signals from the server to the user apparatus". Hatton's system appears to retrieve a data stored locally in the computer's knowledge base(Fig. 5). However, the use of a server for storing a knowledge base and the use of communications from the user (client) to the server are well known in the art. Therefore, one having ordinary skill in the art at the time then invention was made would have it obvious to store the knowledge base in a server because it would facilitate many user to retrieve information that is of interest to them and therefore expand the system's capability.

As per **claims 2 and 13**, it is further noted that Hatton does not explicitly teach wherein said server conducts a search of the World Wide Web, (Identifies documents that include new answer S-A-O's each

comprising an element or elements that match the one or more query elements, stores links to such documents, and adds such new answer S-A-O's to the knowledge base, and wherein the server includes, as part of the second signals, representations of each of the new answer S-A-O's).

However, the use of communication devices and searching, identifying, and linking to documents, on the Internet and World Wide Web are old and well known in the art as admitted by Applicant in the Background of the invention ("[T]o such systems capable of receiving a user entered question, processing the data representing the question, searching local and/or web based databases for information relevant to an answer to user's query, and conveying such answer information to the user"). Therefore, one having ordinary skill in the art at the time the invention was made would have it obvious to incorporate a communication device within Hatton's search method for accessing the Internet for web based answers, with the motivation of providing user access to the numerous fundamental technical publications thereby expanding the system's capability to retrieve that information which is important to the user.

As per **claims 3 and 14**, Hatton further teach wherein said server conducts said search automatically in response to the server determining that no knowledge base element or elements matches the one or more query element or in response to a user search command (Fig. 5. his problem statement into the user interface as the search command, C.1.lines 15, 16-his query).

5. Claims 4, 8 and 15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatton in view of Lamberti et al. (Lamberti, 5,377,103).

As per **claims 4 and 15**, Hatton teaches claim 1, but lacks explicitly teaching wherein said server is programmed to query the user to determine if user wants to initiate the user search command. However, Lamberti et al. teach wherein said server is programmed to query the user...user search command (col. 6, lines 4-26). Therefore, at the time of the invention, it would have been obvious to one ordinarily skilled in the art to modify Hatton's search with Lamberti's query for initiating the search, the motivation being to reduce the potential for error before searching.

As per **claim 8**, Hatton further teach wherein said user apparatus includes a user digital computer for generating said first signals and

receiving said second signals "(figure 5, C.5.lines 28-35).

As per **claim 11**, Hatton further teach wherein said second signals represent each_ answer S-A-O in sentence format (C.13.line18).

6. Claims 5-7, 9-10, 16-19, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatton (US 6,269,356) in view of Johnson (5,748,974).

As per **claim 5**, Hatton et al teach the claimed invention but does not explicitly teach wherein user apparatus converts human voice signals into said first signals. However, this feature is well known in the art as evidenced by Johnson who teach a multimodal natural language interface that enables users to combine natural language (spoken, typed or handwritten) using a speech recognizer to convert the speech signal into text at the abstract and figure 2 (his speech input). Therefore, one having ordinary skill in the art at the invention was made would have it obvious to incorporate into Lamberti' s system a speech recognizer because it allow expand the capability of the system by allowing user to enter their input speaking it that would facilitate users who cannot type.

As per **claims 6-7, 9-10 and 16-19**, Johnson teaches wherein user apparatus converts second signals into audio signals (his output response generator 54).

7. Claim 29 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hatton (US 6,269,356) in view of Levin et al. (Levin, US 6,173,279).

As per **claim 20**, claim 20 sets forth limitations similar to claims 1 and 2, and are thus rejected for the same reasons and under the same rationale. Hatton lacks teaching URL, and processing the url..., an HTML page to the user device, processing the at least one HTML page ...to output a solution to the user query. However, Levin et al. teaches all of these lacking elements (C.6.lines 13-55). Therefore, at the time of the invention, it would have been obvious to modify Hatton with Levin's Web search query system. Providing the benefit of natural language query through a plurality of data resources, including the Web (abstract).


Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamont M. Spooner whose telephone number is 571/272-7613. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571/272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

lms
4/27/07


PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER